

A large, faint, light blue water wheel graphic is positioned in the background, centered behind the main title. The wheel has several spokes radiating from a central hub and several curved buckets around its perimeter. The overall aesthetic is clean and professional, with a focus on renewable energy themes.

Case Study – Cotehele Mill

*Small scale micro-hydro
installation at historic
mill site*



- Existing mill in regular operation
- Good quality Salmonid river
- 7m of fall
- National Trust client, system to be separate to mill and easy to run
- Wet site
- Poor access



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- A large, faint graphic of a water wheel is centered in the background. The wheel has several spokes and curved blades. The text is overlaid on the left side of the wheel. At the bottom of the slide, there is a blue wavy shape representing water, and the text 'ern Renewable Energy' is partially visible in a light blue font.
- *Design and license negotiation by WRE*
 - *National Trust had tight timescales and moderate budgets*
 - *Delays due to interaction with other works on site slowed down start date*
 - *Fixed price installation*
 - *WRE installed all intake works, powerhouse, screening, and all M&E*
 - *Commissioning*



- *Powerhouse located upstream of existing mill*
- *Fish screening agreed at forebay with fish bywash*
- *Very wet site with hard bedrock*





- 135 l/s crossflow turbine
- WRE automatic screen
- Efficient flat belt drive
- Piped fish bywash and integrated flood spillway
- Set out to WRE **HEADstart** layout
- 5.5kW G83 grid connection

- *Completed on budget*
- *Quiet operation*
- *Spacious powerhouse*
- *Re-use of existing historic system brings mill 'back to life'*

